

COUNTRY PROFILE

SLOVAKIA

CLIMATE: **LOW** CARBON: **MODERATE**

THE MONITOR ASSESSMENT

The Climate Vulnerability Monitor provides a comprehensive national-level assessment of vulnerabilities and impact specifically related to contemporary climate change and carbon intensiveness. This 2012 Monitor assessment was commissioned by the Climate Vulnerable Forum and has been independently developed by DARA. It is grounded in leading and up-to-date scientific studies, research and data assimilated on the basis of an externally reviewed methodology. The assessment spans 34 indicators of impact/vulnerability: 22 for climate change ("Climate") and 12 for carbon intensiveness ("Carbon"). Estimates in human, economic and environmental terms are for 2010 and 2030. Vulnerability at country-level and by indicator is comparative to the 184 countries included in the assessment.

→ For the full report, data & additional info: www.daraint.org/cvm2 - cvm@daraint.org - +34 915310372

ECONOMIC NATIONAL LOSS TOTALS: SLOVAKIA

ADDITIONAL ECONOMIC COSTS (NEGATIVE NUMBERS SHOW POSITIVE EFFECTS) - YEARLY AVERAGE



HUMAN NATIONAL LOSS TOTALS: SLOVAKIA

ADDITIONAL HUMAN IMPACTS (NEGATIVE NUMBERS SHOW POSITIVE EFFECTS) - YEARLY AVERAGE



FULL COUNTRY ASSESSMENT: SLOVAKIA

	VULNERABILITY LEVEL		ADDITIONAL ECONOMIC COSTS (MILLION USD PPP)		ADDITIONAL MORTALITY		ADDITIONAL AFFECTED POPULATION (1000s)		OTHER VALUE 1*		OTHER VALUE 2*	
	2010	2030	2010	2030	2010	2030	2010	2030	2010	2030	2010	2030
ENVIRONMENTAL DISASTERS												
DROUGHT	-	-	5	15								
FLOODS AND LANDSLIDES			5	30	1		2	1				
STORMS			1	5								
WILDFIRES	-	-										
TOTAL			11	50	1	0	2	1				
HABITAT CHANGE												
BIODIVERSITY	-	-	200	1,250					-450	-900	90	300
DESERTIFICATION												
HEATING AND COOLING			-300	-1,750					-1,250	-2,500	-400	-750
LABOUR PRODUCTIVITY			1	20					5	5		
PERMAFROST												
SEA-LEVEL RISE												
WATER	+	+	700	5,000					1	1		
TOTAL			601	4,520			0	0				
HEALTH IMPACT												
DIARRHEAL INFECTIONS					0	0	0	0				
HEAT AND COLD ILLNESSES	+	+			40	40						
HUNGER												
MALARIA AND VECTOR-BORNE												
MENINGITIS												
TOTAL					40	40	0	0				
INDUSTRY STRESS												
AGRICULTURE			10	50								
FISHERIES			1	5								
FORESTRY												
HYDRO ENERGY			5	35								
TOURISM			5	50								
TRANSPORT	-	-	1	15								
TOTAL			22	155								
CLIMATE TOTAL			632	4,725	40	40	2	1				
ENVIRONMENTAL DISASTERS												
OIL SANDS												
OIL SPILLS												
TOTAL			0	0								
HABITAT CHANGE												
BIODIVERSITY			100	750					60	200		
CORROSION	-	+	1	5								
WATER			5	15					150	100		
TOTAL			106	770								
HEALTH IMPACT												
AIR POLLUTION	+	+			500	550	5	7				
INDOOR SMOKE	-	-			850	1,000	5	7				
OCCUPATIONAL HAZARDS	-	-			15	15	1	1				
SKIN CANCER	-	+			55	100	0	0				
TOTAL					1420	1665	12	16				
INDUSTRY STRESS												
AGRICULTURE	+	+	95	400								
FISHERIES												
FORESTRY	-	-	45	100								
TOTAL			140	500								
CARBON TOTAL			246	1,270	1,420	1,665	12	16				

VULNERABILITY LEVELS:

- Acute+ High+
- Acute- High-
- Severe+ Moderate
- Severe- Low

+ = Upper tier of vulnerability level
- = Lower tier of vulnerability level

Environmental disasters
Habitat change
Health impact
Industry stress

CLIMATE = Impact/Vulnerability to Climate Change
CARBON = Impact/Vulnerability to Carbon Intensiveness

OTHER VALUE 1 OTHER VALUE 2

BIODIVERSITY Contraction of biological zones (km²) (cumulative) Decline in biological richness

DESERTIFICATION Additional land degraded (km²) (cumulative)

HEATING & COOLING Change in energy load (GWh)

LABOUR PRODUCTIVITY Share of workforce particularly affected (%)

SEA-LEVEL RISE Net loss of land (km²) (cumulative)

WATER Loss in water runoff 2030 (km³)

OIL SANDS Tonnes toxic waste ('000s)

OIL SPILLS Gallons oil spill ('000s)

BIODIVERSITY Decline in biological richness

WATER Volume of water to treat (millions m³)